

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF CLAIMS:

1-10 (canceled)

11.(new) A panel (1,1') for sectional doors, comprising a first profiled metal plate (2) and a second profiled metal plate (4), connected together to form an interspace (3), filled with an insulant, such as foamed polyurethane, and presenting a body having:

a) a first longitudinal end (6) having a more outer substantially circular profile part (5) and a more inner narrow connecting part (10, 11, 17, 18, 19), and

b) a second longitudinal end (7) opposite the first (6) and presenting a recess (8) of substantially circular narrow-mouthed shape (8A), centered on the medium plane of the panel (1, 1') and arranged to matchingly receive said more outer part (5) of another panel having identical ends such as to couple and hinge the panels (1) together by simply inserting them manually and thrusting them in the direction of the panel height, characterised in that the recess (8) is symmetrical to said medium plane.

12.(new) A panel (1) for sectional doors as claimed in claim 11, characterised in that its first longitudinal end (16) is obtained by the union of two circumferential arcs (12) and (16) of the profiled plates joined together by means of a pair of tabs (13,14) and radius-joined to the body of the panel by the shaped connection portions (10-11 and 17-18-19).

13.(new) A panel (1) for sectional doors as claimed in claim 11, characterised in that that end (7) provided with the recess (8) is formed by the union of two circumferential arcs (24) and (28) joined together by means of a pair of tabs (26,27), and radius-joined to the lower end of the panel (7) by a plurality of portions of shaped fixing profiles (20-21-22-23 and 29-30-31-32).

14.(new) A panel (1) for sectional doors as claimed in claim 11, characterised in that said shaped fixing profile portions (20-21-22-23 and 29-30-31-32) present at said second end (7) are shaped such that the initial portions (22-23 and 29-30) forming the access mouth are positioned below the centre (25) of said recess (8) and have a minimum distance apart which is less than the diameter of the circumference of the more outer part (5), to embrace said part (5) when inserted and prevent its easy disengagement during normal operation of the sectional door.

15.(new) A panel (1) for sectional doors as claimed in claim 11, characterised in that said more outer part (5) is slightly inclined towards the interior of the space closed by the sectional door, to prevent, when in said position, squashing of the fingers by the outside of the door, between a shaped fixing profile portion (20-21) of the second end (7) and the radius-joining profile (10-11) of the first upper end (6), during their mutual rotation.

16.(new) A panel (1) for sectional doors as claimed in claim 11, characterised in that said more outer part 5 is inclined towards the interior of the space closed by the sectional door, in said position preventing squashing of the fingers by the inside of the door, between the shaped fixing profile portion (31-32) of the lower end (7) and the internal radius-joining profile (17-18-19) of the upper end (6) during their mutual rotation, said squashing of the fingers being prevented until the angle between the panels

is $\pi/6$ radians, said contained angle assuming at a maximum the value of $\pi/3$ radians, at which contained angle said profiles (31-32) and (17-18-19) already abut against each other, so preventing their further mutual rotation and ensuring that the panels (1) cannot possibly fall.

17.(new) A panel (1) for sectional doors as claimed in claim 11, characterised in that a plurality of half-rings (9) of self-lubricating material can be inserted into the recess (8,38) by simple manual push-fitting in the direction of the panel height; spaced apart by a distance approximately equal to the height of the panel (1).

18.(new) A sectional door formed from panels in accordance with claim 11.